

**SLOPE PREDICTIVE CONTROL FOR A VARIABLE
TEMPERATURE CONTROL SYSTEM**

Abstract of the Disclosure

[0072] The present invention applies a slope predictive control method to a Variable Temperature Control (VTC) system, measuring the slope of the discharge temperature as a function of flow regulation device position, and using this slope to predict the position of the flow regulation device needed to achieve the desired discharge temperature. The present invention also monitors the response of the VTC over time and utilizes a self-learning algorithm to predict the response time of the system in order to determine when further control adjustments need to be taken.

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